 		ГО 1449		Pag	ge 1 of 8		.]		
INFORMAT	TION DIS	SCLOSURE STA	TEMENT [Atty Dkt: 3501.115 (2064–181)	Serial N 10/03	o. 2,790	PEC		
				Applicant:					
Title: Metho	od and A	pparatus for Inc	reasing	Daniel A. Keys, et al.		70.	(E)		
the Dy	ynamig ⁄ R	Onge and Accur	acy of	Filing Date:	Group		1001 5		
	ng Assay			10-24-01			100gy 200		
	12 J	AH 3 1 2092 W	U.S. PATE	NT DOCUMENTS			FEB 5 200		
	B	\$		T	<u> </u>		7		
Examiner's	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Patent			Class	Sub- Class	1 ming		
Initial		Patent Panish Parish Panish Pa	Date	Name	Class	Class	Date		
60	AA1	3,791,932	2/12/74	Schuurs, et al.	195	103.5	1/27/72		
GL	ABI	4,016,043	4/5/77	Schuurs, et al.	195	103.5	9/4/75		
6-	AC1	4,185,084	1/22/80	Mochida, et al.	424	1	10/3/77		
FU	AD1	4,243,749	1/6/81	Sadeh, et al.	435	7	3/16/78		
62	AEI	4,313,734	2/2/82	Leuvering	23	230	7/13/79		
		FOI	REIGN PA	TENT DOCUMENTS					
	T T			T		T	Trans-		
		Document			Class	Sub-	lation		
	}	Number	Date	Country		Class	Yes/No		
Ge		EP 177,191	11/22/90		G01N	33/537	NO		
ه		GB 2,084,317		UNITED KINGDOM	G01N	33/54	NO		
· · -	AN1					<u> </u>			
		OTHERS, inclu	ding Autho	or, Title, Date, Pertinent F	ages, etc.				
be	ARI		Bass, D.A. et al. "Flow cytometric studies of oxidative product formation by neutrophils: a graded response to membrane stimulation." J. Immunol. 130: 1910-						
	AS1	crystal structu	Bode, W. et al. 1989, "Human leukocyte and porcine pancreatic elastase: X-ray crystal structures, mechanism, substrate specificity and mechanism-based inhibitors," <i>Biochem.</i> 28:1951-1963.						
	ATI	Coates, P.M. e isozymes of h	Coates, P.M. et al., 1975, "A preliminary genetic interpretation of the esterase isozymes of human tissues," Ann. Hum. Genet. Lond. 39: 1-20.						
	AR2	Crockard, A. e leukemias," A	Crockard, A. et al., 1982, "Cytochemistry of acid hydrolases in chronic B- and T-cell leukemias," Am. J. Clin. Pathol. 78:437-444.						
60	AS2/		Dujardin F.H., et al., "Quantitative assessment of cortical bone remodelling from routine radiographs of total hip arthroplasty," Med. Eng. Phys. 1996 Sep; 18(6): 489-94.						
Examiner:	71	^ -		Date Considered					
Evaminer: To	nitial if re	Sterence consider	d whether	y. 3-33 or not citation is in conform	ance with	TABER	600 Deary		
line through communicati	citation in	f not in conformat	nce and not	considered. Include copy of	of this form	n with n	ext		
Communicati	on to Ap	piicaiii.							

		TO 1449	8	Page 2 of 8 Atty Dkt: 3501.115 (2064–181) Applicant: Daniel A. Keys, et al. Filing Date: 10–24–01 FENT DOCUMENTS					
INFORMATION DISCLOSURE STATEMENT			Atty Dkt: 3501.115 (2064–181)		Serial No. 10/032,790				
		<u> </u>	45	Applicant:	10/032	.,/90	<u> </u>		
itle: Metho	od and A	pparates for Inc	reasing	Daniel A. Keys, et al.		7	Ch (8)		
the D	ynamic R	lange and decopyrs	of	Filing Date:	Group		Molon 5		
Bindi	ng Assay	<u>s</u>		10-24-01			Sy Con		
			J.S. PATE	NT DOCUMENTS			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
xaminer's		Patent Number	Date	Name	Class	Sub- Class	Filing Date		
n	AA2	4,373,932	2/15/83	Gribnau, et al.	436	501	1/2/8		
	AB2	4,401,764	8/30/83	Smith	436	500	2/2/8		
	AC2	4,661,444	4/28/87	Li	435	7	3/29/8		
	AD2	4,746,631	5/24/88	Clagett	436	518	5/9/8		
₽	AE2	4,810,096	3/7/89	Russell, et al.	356	436	4/8/8		
		FOR	EIGN PA	TENT DOCUMENTS					
-		Document Number	Date	Country	Class	Sub- Class	Trans- lation Yes/No		
-									
		OTHERS, inclu	ding Autho	or, Title, Date, Pertinent	Pages, etc	•			
b	AT2			Ieparin Inhibits Neutrophi Med. 119(3), 231-239 (199		Platelet A	Activation Via		
Ge	AR3	Fleischer, B., Immunol. Toda		6: a surface protease invo	olved in T-c	ell activ	ation,"		
	AS3		Fowler A., et al., "A multi-modality assay platform for ultra-high throughput screening," Curr. Pharm. Biotechnol. 2000 Nov;1(3):265-81.						
	AT3	Gartner, T.K. et al., 1985, "The tetrapeptide analogue of the alpha chain and decapeptide analogue of the gamma chain of fibrinogen bind to different sites on the platelet fibrinogen receptor," Blood 66 Suppl 1: 305a.							
æ	AR4	Hegen, M. et a required for its	Hegen, M. et al., 1993, "Enzymatic activity of CD26 (dipeptidylpeptidase IV) is not required for its signalling function in T cells," <i>Immunobiology</i> 189: 483-493.						
xaminer:	1	2 Court		Date Considered 4-3-03		-			
xaminer: In the same through communication	nitial if re citation if	ference considere f not in conforman	d, whether ce and not	or not citation is in conforce considered. Include copy	mance with of this for	h MPEP m with r	609. Draw next		

PTO 1449				Page 3 of 8					
INFORMAT	TION DI	SCLOSURE STAT	EMENT 7	Atty Dkt: 3501.115	Serial N	Vo.			
				(2064–181)	10/032	790			
77° 1 3 4 43		4 C: T		Applicant:			MED		
Title: Metho	od and A	Apparatus for Inci	easing	Daniel A. Keys, et al.	10		<u>, `C</u> X		
the Dy	namic I	Range and Accura		Filing Date:	Group		ERA		
Bindii	ng Assay			10-24-01			OCHION 5		
	<u> </u>	Patent 5,198,670	J.S. PATE	NT DOCUMENTS			Echnology Center		
	<u> </u>					Sub-			
Examiner's Initial		Patent	D-4-	Name	Class	Class	Filing		
	A A 3	5 109 670	Date	1	350	220	Date		
<u>br</u>	AA3	5,198,070	3/30/93	VanCauter, et al.	250	328	9/29/89		
or	AB3	5,306,468	4/26/94	Anderson, et al.	422	101	7/19/91		
	AC3	5,501,985	3/26/96	Baugher, et al.	436	518	4/21/94		
	AD3	5,563,036	10/8/96	Peterson, et al.	435	6	4/29/94		
62	AE3	5,599,668	2/4/97	Stimpson, et al.	435	6	9/22/94		
		FOR	EIGN PA	TENT DOCUMENTS					
						CL	Trans-		
		Document	_		Class	Sub- Class	lation		
	1	Number	Date	Country	Class	Class	Yes/No		
					ŀ		1		
	AS4			r, Title, Date, Pertinent			ppeptidase N		
se		Hoffmann, T. et al. 1993, "Dipeptidyl peptidase IV (CD 26) and aminopeptidase N (CD 13) catalyzed hydrolysis of cytokines and peptides with N-terminal cytokine sequences," FEBS Letters 336: 61-64.							
\	AT4			Genomic organization and J. Biol. Chem. 264: 1341		mal loca	lization of the		
- 1	AR5	TT T A	.1 "D-4	4:			. 11		
		formalin-fixed	paraffin em	tion of thymidylate synth bedded tissue by semiqu hain reaction," <i>Tumour E</i>	antitative, 1	nonradio	active reverse		
	AS5/	Jongkind, J.F. et al., 1986, "Detection of acid-b-galactosidase activity in viable human fibroblasts by flow cytometry," Cytometry 7:463-466.							
	AT5	Kankaanranta, H. et al., 1994, "Effects of non-steroidal anti-inflammatory drugs on polymorphonuclear leukocyte functions in vitro: focus on fenamates," Naunyn-Schmiedeberg's Arch Pharmacol. 350:685-691.							
be	AR6		asts with fl	n in situ study of beta-glu uorogenic probes," <i>Cell I</i>					
Examiner:	-M	11-1	T	Date Considered					
		my Contle	-	4-3-07					
Examiner: In line through communicati	citation i	if not in conforman	i, whether of ce and not of	or not citation is in conforce not citation is in conforce not considered. Include copy	mance wit of this for	h MPEP m with n	609. Draw lext		

itle: Method the Dyn Binding xaminer's nitial	and Ar amic Ra Assays	AN 2 4 mm	reasing I acy of 1	Atty Dkt: 3501.115 (2064–181) Applicant: Daniel A. Keys, et al. Filing Date: 0-24-01	Serial N 10/03	No. 2,790 2	PCNNOlogy Center		
xaminer's nitial	amic Ra Assays	ange and Accur	reasing I acy of I	Applicant: Daniel A. Keys, <i>et al.</i> Filing Date: 0-24-01	Group	2,790	Pennology 0 5		
xaminer's nitial	amic Ra Assays	ange and Accur	reasing I acy of I	Daniel A. Keys, et al. Filing Date: 0-24-01	Group		Chrology 5		
xaminer's nitial	amic Ra Assays	ange and Accur	acy of 1	0-24-01	Group				
xaminer's nitial	, Assays	0	1		1		- Co.		
1 1	THE PERSON NAMED IN COLUMN TO PERSON NAMED I	AN 3 1 2002 W	U.S. PATEN				"Ther		
1 1	THE CO	Patent	1	T DOCUMENTS					
1 1	* * 1	RADEMARET	Date	Name	Class	Sub- Class	Filing Date		
1 1	AA4	5,627,080	5/6/97	Cheng, et al.	436	534	7/29/94		
	AB4	5,633,141	5/27/97	.Lee, et al.	435	7.2	4/7/95		
T I	AC4	5,679,525	10/21/97	Peterson, et al.	435	6	7/17/96		
, ,	AD4	5,691,147	11/25/97	Draetta, et al.	435	7.1	6/2/94		
be 1	AE4	5,698,411	12/16/97	Lucas, et al.	435	29	5/18/95		
		FOR	REIGN PAT	TENT DOCUMENTS					
		Document Number	Date	Country	Class	Sub- Class	Trans- lation Yes/No		
		OTHERS, inclu	ding Author	r, Title, Date, Pertinent	Pages, etc	•			
br F	AS6	Kojima, K. et collagenase-lil	<i>al.</i> , 1979, "A ke peptidase	new and highly sensitivactivity," Anal. Biochem	re fluoresce . 100: 43-5	nce assa 0.	y for		
{	AT6	Li, C.Y. et al., and pathologic	1970, "Acid	l phosphatase isoenzyme "J. Histochem. Cytocher	in human 1 n. 18:473-4	leukocyt 81.	es in normal		
	AR7	Manzella S.M., et al. "A biphasic radiometric assay of glycogenin using the hydrophobic acceptor n-dodecyl-beta-D-maltoside," Anal. Biochem. 1994 Feb 1;216(2):383-91.							
	AS7	McDonald, J.A. et al., 1980, "Degradation of fibronectin by human leukocyte elastase," J. Biol. Chem. 255: 8848-8858.							
	AT7	Mentlein, R. et al., H. R., "Influence of Pregnancy on Dipeptidyl Peptidase IV Activity (CD26 Leukocyte Differentiation Antigen) of Circulating Lymphocytes", Eur. J. Clin. Chem. Clin. Biochem., 29, 477-480 (1991).							
be !	AR8			entation for multiwavele ov;69(2):137-47).	ngths excit	ation im	aging," J.		
xaminer:	H	A 1		Date Considered	 ,,				
	1/ 00			4-3-03					
xaminer: Init	tial if ref	Spence considere	ea, whether o	r not citation is in confo	rmance wit	n MPEP	609. Draw		
ne through crommunication	tation if	not in conformat	nce and not c	onsidered. Include copy	of this for	m with n	ext		

PTO 1449				Page 5 of 8 Atty Dkt: 3501.115 (2064-181) Applicant: Daniel A. Keys, et al. Filing Date: 10-24-01 FENT DOCUMENTS					
INFORMAT	TION DI	SCLOSURE STAT	rement [Atty Dkt: 3501.115 (2064–181)	Serial N 10/032	790	, ECA		
				Applicant:	10/032	2 60			
Title: Metho	od and A	pearatur for Inc	reasing	Daniel A. Keys, et al.		100	12 C		
the D	vnamic/	Range and Accura	cy of	Filing Date:	Group		"0/001 3 CO		
	ng Assay			10-24-01	1		Cent		
	P.	JÁN 3 1 2002 L	J.S. PATE	NT DOCUMENTS			"er 270		
	1 4		i			1			
Examiner's Initial		Patente PATATA	Date	Name	Class	Sub- Class	Filing Date		
be		3,747,332	5/5/98	Yan, et al.	436	533	5/23/94		
	AB5	5,754,229	5/19/98	Elabd	348	319	11/14/95		
	AC5	5,772,926	6/30/98	Akhavan-Tafti	252	700	5/13/97		
	AD5	5,811,526	9/22/98	Davidson	530	391.3	5/23/95		
Ge	AE5	5,843,651	12/1/98	Stimpson, et al.	435	6	5/2/95		
		FOR	EIGN PA	TENT DOCUMENTS					
		Document Number	Date	Country	Class	Sub- Class	Trans- lation Yes/No		
						<u> </u>			
		OTHERS, inclu	ding Autho	or, Title, Date, Pertinent	Pages, etc.		,		
	AS8	<u> </u>		· · · · · · · · · · · · · · · · · · ·			a and		
be		phosphatases d	lerived fron	Fluorogenic substrates for n fluorescein (3,6-dihydrogen). USA 50:1-6.					
	AT8			lized Derivatives of Leucing Chem. 248(5), 1807-1			and		
	AR9	peptidase IV (0	Ruiz, P. et al., 1996, "Cytofluorographic evidence thatthymocyte dipeptidyl peptidase IV (CD26) activity is altered with stage of ontogeny and apoptotic status," Cytometry 23: 322-329.						
	AS97		Sanderink, G.J., et al., 1988, "Human Aminopeptidases: A Review of the Literature. J. Clin. Chem. Clin. Biochem. 26: 795-807.						
Ge	AT9	activation. Inhibition lymphocyte pro	Schon, E. et al., "The role of dipeptidyl peptidase IV in human T lymphocyte activation. Inhibitors and antibodies against dipeptidyl peptidase IV suppress lymphocyte proliferation and immunoglobulin synthesis in vitro," Eur. J. Immunol. 1987 Dec; 17(12):1821-6.						
Examiner:	, I	an Count		Date Considered 4 - 3 - 0.3					
	citation i	eference considere	d, whether	or not citation is in confor considered. Include copy					

	F	TO 1449		Pa	ge 6 of 8		- A		
INFORMA?	ΓΙΟΝ D	ISCLOSURE STAT	FEMENT	Atty Dkt: 3501.115 (2064–181)	Serial 1 10/03	Group			
Title: Meth	od and s	Apparatas for Inc	rossina	Applicant:			May 5		
the: Mein	ou and	Apparatus for the	reasing	Daniel A. Keys, <i>et al.</i> Filing Date:	Crove		- 10gy - 20,		
the Dynamic Range and Ascuracy of Binding Assays				10-24-01	Group		Center		
	H	ANU 2 I YOM M	J.S. PATE	ENT DOCUMENTS	<u>L</u>				
	\								
Examiner's Initial		Number	Date	Name	Class	Sub- Class	Filing Date		
h	AA6	5,851,778	12/22/98	Oh, et al.	435	7.9	4/2/97		
	AB6	5,876,935	3/2/99	Pankratz, et al.	435	6	1/8/97		
	AC6	5,965,736	10/21/99	•	548	110	12/9/98		
7	AD6	5,976,822	11/2/99	Landrum, et al.	435	23	8/20/97		
be	AE6	6,045,727	4/4/00	Akhavan-Tafti, et al	252	700	1/15/97		
		FOR	EIGN PA	TENT DOCUMENTS					
		_				C. L	Trans-		
		Document Number	Date	Country	Class	Sub- Class	lation Yes/No		
			<u> </u>			_1	<u> </u>		
		OTHERS, include	ding Auth	or, Title, Date, Pertinent l	Pages, etc	:.			
GC	AR10			Catalysis by human leukocy ents," <i>Biochem</i> . 26:1301-13		e: Mecha	anistic insights		
	AS10	Stein, R.L. et a	ıl. 1987, "(Catalysis by human leukocy	te elastas	e: Protor	inventory as a		
	′	mechanistic pr	obe," Bioc	hem. 26:1305-1314.			·		
	AT10	Tanaka, T. et al., 1993, "The costimulatory activity of the CD26 antigen requires dipeptidyl peptidase IV enzymatic activity," Proc. Natl. Acad. Sci. USA 90: 4586-4590.							
	Thiele, D.L. et al., 1990, "Mechanism of L-leucyl-L-leucine methyl ester-mediated killing of cytotoxic lymphocytes: Dependence on a lysosomal thiol protease, dipeptidyl peptidase I, that is enriched in these cells," Proc. Natl. Acad. Sci. USA 87: 83-87.								
be	AS11_	Weiss, S.J. 198	89, "Tissue	e destruction by neutrophils,	," N. Eng.	J. Med.	320: 365-376.		
Examiner:	9-1	C		Date Considered					
	Ma	my wints		4-3-03					
				or not citation is in conform					
			ice and not	considered. Include copy of	of this for	m with n	ext		
ommunicat	ion to A	ррпсані.							



PTO 1449				Page 7 of 8				
INFORMAT	TION D	ISCLOSURE STAT		Page 7 of 8 Atty Dkt: 3501.115 (2064-181) Applicant: Daniel A. Keys, et al. Filing Date: 10-24=01 FENT DOCUMENTS			L. J.C.	
		Apparatustor Inci	reasing				180 c	
the Dy	ynamig	Range and Accura	cy of	Filing Date:	Group		010gv - 201	
Bindi	ng Assa	Range and Acoura		10-24-01			Opp.	
	E E	ر چ	J.S. PATE	NT DOCUMENTS			"or 276	
Examiner's Initial		Number	Date	Name	Class	Sub- Class	Filing Date	
6c	AA7	6,045,991	4/4/00	Akhavan-Tafti	435	4	5/3/9	
	AB7	6,139,782	10/31/00	Akhavan-Tafti, et al	252	700	7/21/9	
	AC7	6,177,958	1/23/01	Anderson	348	362	3/11/9	
J	AD7	6,212,291	4/3/01	Wang, et al.	382	132	1/29/9	
Ge	AE7	6,218,137	4/17/01	Akhavan-Tafti, et al	435	21	3/31/0	
		FOR	EIGN PA	TENT DOCUMENTS				
		Document Number	Date	Country	_Class	Sub- Class	Trans- lation Yes/No	
			1			<u> </u>	<u> </u>	
		OTHERS, inclu	ding Autho	or, Title, Date, Pertinent	Pages, etc	•		
6r	ATII	Whitlock, C.A activity expres 1009-1021.	., <i>et al</i> ., 198 s high level	87. "Bone marrow stromals of a pre-B neoplasia-ass	cell lines ociated mo	with lyn olecule,"	nphopoietic Cell 48:	
a	AR12	Woessner, J.F. Jr., 1991, "Matrix metalloproteinases and their inhibitors in connective tissue remodeling," <i>FASEB J.</i> 5: 2145-2154.						
be	Wu, Q. et al., 1991. "Aminopeptidase A activity of the murine B-lymphocyte differentiation antigen BP-1/6C3," Proc. Natl. Acad. Sci, USA 88: 676-680.							
Examiner:	Jan	Court		Date Considered 4-3-23				
	nitial rij citation	if not in conforman		or not citation is in confor considered. Include copy				

PTO 1449				Page 8 of 8					
INFORMAT	ION D	ISCLOSURE STAT	TEMENT						
				(2064–181) 10/032,790					
				Applicant:					
Title: Metho	od and .	Apparatus for Inci	reasing	Daniel A. Keys, et al.					
the Dy	namic _,	Raide and Accura	icy of	Filing Date:	Group				
Binding Assays				10-24-01					
U.S. PATENT DOCUMENTS									
Examiner's Initial	TEV.	Patent 6,270,695	Date	Name	Class	Sub- Class	Filing Date		
GZ	AA8	6,270,695	8/701	Akhavan-Tafti, et al	252	700	7/21/99		
Se	AB8	6,090,571	7/18/00	Akhavan-Tafti, et al	435	21	7/21/99		
FOREIGN PATENT DOCUMENTS									
	Document Number Date		Date	Country	Class	Sub- Class	Trans- lation Yes/No		
·									
_		OTHERS, inclu	ding Auth	or, Title, Date, Pertinent	Pages, etc	•			
Examiner: Date Considered									
Eveniner: I	Examiner: Initial/if reference considered, whether or not citation is in conformance with MPEP 609. Draw								
				considered. Include copy					
communicati			ice and not	considered. Include copy	or uns tor	** 1 (11 1	IOAL		
Lociminamouth	Communication to Applicant.								